The moulding has a high temp. strength, good alternating temp. strength, low thermal conductivity and has low WO9321126-A+ Making chimneys and chimney parts using steel tubular (2) a glass-like, amorphous electrofilter ash; and/or The moulding has a high temp. strength, shrinkage at high temperature. USE/ADVANTAGE

EMBODIMENTS KZ IK IU MG MN MW NL NO NZ PL PT RO RU SD SE SK UA US VN) R(AT BE CH. DE DK ES FR GB GR IE IT LU MC NL OA PT SE

L(2-A4, 2-G1)

*WO 9321126-A1 **HUTR 92.04.11**

92.10.31 92DE-4236855 (+92DE-4212229) (93.10.28) CO4B 28/00,

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HUELS TROISDORF AG

28/26 (C04B 14:10, 14:1B, 18:0B, 18:14, 28/00, 22:00, 18:10)

(CO4B 14:18, 28/26, CO6B 14:10)

moulds.

stone forming component, pouring into mould and thermally

hardening (Ger)

Low density inorganic moulding prodn. - by wetting microporous filler material with liq., water contg. wetting agent, mixing with C93-156006 N(AT AU BB BG BR CA CH CZ DE DK ES FI GB HU JP KP KR

The stone-forming component consists of: (1) a fine oxide mixture of amorphous SiO2 and Al2O3; and/or

ground calcined bauxite; and/or 3

WILLICH DAEMMSTOFFE & ISOLIERSYSTEME GMB (WILL-)

93.04.13 93WO-EP00900

93-328871/42

Addnl. Data: HAACK T, RANDEL P

a density below 400 kg/m3 consists of wetting a microporous Method of producing a light, mainly inorganic moulding with

filler material of powder density below 150 kg/m³ with a.

liquid, water-containing wetting agent; mixing with a stone-forming component and optionally other solid components

retains its macrostructure; pouring into a mould; and press

forming followed by removal and thermal hardening.

together with a liquid hardener so that the filler material

(4) electrofilter ash from lignite coal fire power stations; and/or

(5) undissolved, amorphous SiO2, esp. from an amorphous, dispersed powder, dehydrated or hydrated silicic acid;

(6) meta kaolin. and/or

The hardener is an alkali silicate solution with 1.2-3 mol SiO2 per mol K2O and/or Na2O and a density of 1.4-1.7

WO9321126-A

A surfactant and a turbity agent may also be added to the mixture. The latter is pref. a vegetable ash such as rice shell ash. The filler material is pref. expanded vermiculite and/or pearlite.

The mixture is pressed in a mould to reduce the volume to 20-80, pref. 30-50% of the starting volume using a

pressure of 1-4 bar.

The mould is preheated to 40-250, pref. 100-170°C and after pressing is removed from the mould within 3 min. It is then hardened at 40-300, pref. 100-200°C.

(19pp1678KGDwgNo0/1).

SR:1.Jnl.Ref EP199941 EP417583 EP494015 JP03122068 WO8905783